

a plurality of level adjusting circuits for respectively adjusting amplitude values of the plurality of baseband signals with the bands limited by said respective baseband filters based on a plurality of control signals to output the signals;

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concl) an adding circuit adding and code-multiplexing the plurality of baseband signals outputted from said respective level adjusting circuits to produce one baseband signal;

a D/A converting circuit for converting the baseband signal which is a digital signal outputted from said adding circuit into an analog signal;

a gain setting circuit that:

calculates, for respective said level adjusting circuits, a gain set value with which an amplitude value of the baseband signal outputted from said adding circuit is adjusted to an amplitude value matching a dynamic range of said D/A converting circuit, said gain set value is based on the number of transmission codes, which is the number of multiplexed baseband signals, and said gain set value based on interchannel ratio information, said interchannel ratio information specifying an amplitude ratio of the respective baseband signals when the plurality of baseband signals are multiplexed, and

notifies said level adjusting circuit of the gain set values with said plurality of control signals.

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7. (Amended) A level adjusting circuit comprising:

a plurality of bit shifters that shift input baseband signals to the right by different certain bits;

a plurality of switches for selecting outputs from said respective bit shifters in accordance with a desired gain desired to be set; and

an adder for adding outputs from said respective switches for output as one signal.

8. (Amended) A baseband signal multiplexing circuit for multiplexing a plurality of baseband signals spread with different spread codes into one baseband signal, comprising:

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a plurality of baseband filters respectively limiting bands of the respective baseband signals input thereto, and adjusting amplitude values of the respective baseband signals based on a control signal to output the signals;

an adder adding and code-multiplexing the plurality of baseband signals with the bands limited by said respective baseband filters to produce one baseband signal;

a D/A converter converting the baseband signal which is a digital signal outputted from said adder into an analog signal; and

a gain setting circuit calculating a gain set value with which an amplitude value of the baseband signal outputted from said adding circuit is adjusted to an amplitude value matching a dynamic range of said D/A converter based on the number of transmission codes which the number of multiplexed baseband signals and said gain setting circuit further notifying a level adjusting circuit of the gain set value with said control signal.

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15. (Amended) A method of controlling a transmission level in a baseband signal multiplexing circuit for multiplexing a plurality of baseband signals spread with different spread codes into one baseband signal, said method comprising [the steps of]:

limiting bands of the respective baseband signals input thereto;

adjusting respective amplitude values of the plurality of baseband signals with the limited bands based on a ratio specifying an amplitude ratio of the respective baseband signals when the plurality of baseband signals are multiplexed;

adding and code-multiplexing the respective baseband signals after the adjustment of the amplitude values to produce one baseband signal;

calculating a gain set value with which an amplitude value of the code-multiplexed baseband signal matches a dynamic range in D/A conversion based on the number of transmission codes which is the number of multiplexed baseband signals;

adjusting the amplitude value of the code-multiplexed baseband signal based on the gain set value; and

D/A converting the baseband signal after the adjustment of the amplitude value based on the gain set value into an analog signal.

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16. (Amended) A method of controlling a transmission level in a baseband signal multiplexing circuit for multiplexing a plurality of baseband signals spread with different spread codes into one baseband signal, said method comprising:

adjusting respective amplitude values of the respective baseband signals input thereto based on a ratio specifying an amplitude ratio of the respective baseband signals when the plurality of baseband signals are multiplexed;

adding and code-multiplexing the respective baseband signals after the adjustment of the amplitude values to produce one baseband signal;

limiting a band of the code-multiplexed baseband signal;

calculating a gain set value with which an amplitude value of the baseband signal with limited band matches a dynamic range in D/A conversion based on the number of transmission codes which is the number of multiplexed baseband signals;

adjusting the amplitude value of the baseband signal with the limited band based on the gain set value; and

D/A converting the baseband signal after the adjustment of the amplitude value based on the gain set value into an analog signal.
